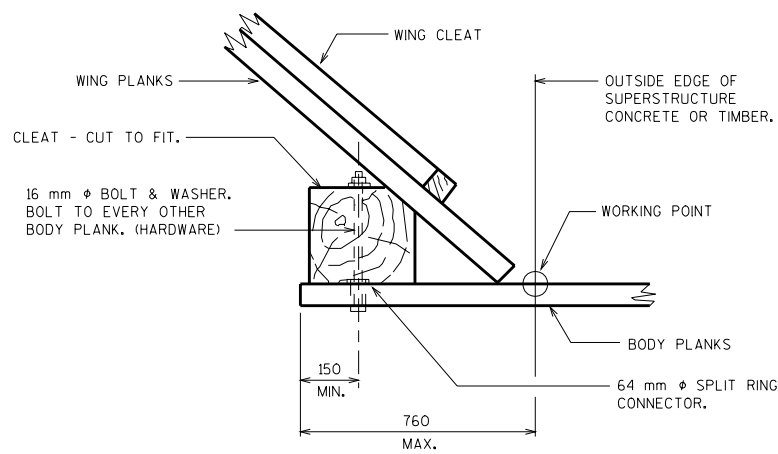


PLAN



CORNER DETAIL

NOTES

- ALL TIMBER CONNECTORS AND HARDWARE EXCEPT THOSE OF MALLEABLE IRON SHALL BE GALVANIZED.
- TREAT ALL LUMBER AND TIMBER WITH ONE OF THE PRESERVATIVES RECOMMENDED IN THE CONSTRUCTION SPECIFICATIONS.
- TIE RODS SHALL BE COATED WITH THE COAL TAR OR BITUMASTIC COMPOUND USED FOR COVERING WING PILE ENDS.
- REFER TO A.A.S.H.T.O. SPECIFICATIONS FOR ALLOWABLE LUMBER AND TIMBER STRESSES.
- THE BODY BACKING PLANKS SHALL BE CONTINUOUS OVER 4 PILES (3 PANELS). PLANK SPLICES, IF REQUIRED SHALL BE AT THE CENTERLINE OF PILING AND ADJACENT SPLICES SHALL BE STAGGERED.
- ALL TIE RODS, TURNBUCKLES, NUTS AND WASHERS SHALL BE PAID FOR AS "STRUCTURAL CARBON STEEL".
- TIMBER CONNECTORS AND HARDWARE SHALL BE INCLUDED IN THE COST FOR "TREATED LUMBER AND TIMBER".
- ALTERNATE DETAILS MAY BE SUBMITTED USING EITHER GALVANIZED STEEL BRIDGE PLANK OR PRECAST CONCRETE PLANK IN LIEU OF TIMBER BACKED ABUTMENT PLANKING, SUBJECT TO APPROVAL BY THE ENGINEER.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

SKEW ANGLE	"H" HEIGHT FROM STREAM BED OR BERM TO GRADE	WING ANGLE "A"	WING ANGLE "B"
0° TO 15° INCL.	$H \leq 3050 \text{ mm}$	45°	45°
0° TO 15° INCL.	* $H > 3050 \text{ mm}$	50°	50°
15° TO 20° INCL.	$H \leq 3050 \text{ mm}$	55°	30°
15° TO 20° INCL.	* $H > 3050 \text{ mm}$	50°	50°
OVER 20°	$H \leq 3050 \text{ mm}$	65°	25°
OVER 20°	● $H > 3050 \text{ mm}$	65°	25°

- * USE TIE RODS ON WING PILING
- USE TIE RODS WITH A DEADMAN ON WING PILING.

SECTION	MOMENT CAPACITY (kN-m/m)
64 mm TIMBER	8.0 ($f_b = 8.3 \text{ MPa}$)
89 mm TIMBER	14.2 ($f_b = 8.3 \text{ MPa}$)
10 GAGE (1830 x 610 mm) GRADE A * ARMC0	8.5 ($f_b = 124.1 \text{ MPa}$)
7 GAGE (1830 x 610 mm) GRADE A * ARMC0	11.1 ($f_b = 124.1 \text{ MPa}$)

*A.S.T.M. A446M

TIMBER ABUTMENTS
GENERAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DEVELOPMENT SECTION

APPROVED: _____

DATE:
1/99